Planning Grid -- Unit: Bonding & Compounds

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| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Literacy Strategy for Ch.7  Reciprocal Reading  Part 1: I model reading & questioning  Part 2: I model reading, students question  Part 3: Students pair off to do strategy on their own for remainder of section 7.1  Materials: Textbook, graphic organizer  Homework: Read up to p.243 on own, take notes using same method of summarizing every 3 paragraphs, notes turned in for grade | Octet Rule/Lewis Dot Structures  Admit: What are the first two electron orbitals?  How many electrons make up the outermost (valence) shell?  Discuss: What does octet mean?  Start with the prefix, oct- what words have oct- ?  What do they mean?  Octet: 8 outer electrons. Valence shell can hold 8 electrons, atoms have diff # of electrons  Lewis Dot Structures: How to Write. Demo 3 or 4. Work in pairs to complete worksheet.  Materials: Worksheet | Bonding  Admit: Draw Lewis Dot structures for Carbon, Hydrogen  Divide class into 6 groups.  Groups: Ionic Bonds & Compounds, Cations, Anions (mono & poly), Covalent Bonds, Binary Compounds, Multiple Bonds  Each group makes up chart to teach class about their topic. Include definitions, examples, Lewis Dot Structures (25 Minutes)  Groups Present, 4-5 min each (30 min)  Materials: Markers, large sticky pads, textbooks  HW: Review notes on chapter through p. 243 | Isn’t it Ionic?  Admit: Draw Lewis Dot Structures for Na+ , Cl-, O2, and H2O  Inquiry: Ionic and Covalent Bonds  Materials: small index cards, small circle/dot stickers (3 colors), markers | Inquiry: Ionic and Covalent Bonds, cont’d  Homework: Read remainder of Ch 7 (p. 244-259) on naming and take notes. Complete questions on inquiry packet if not done. |
| Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
| What’s in a Name?  Admit: Write the corresponding number or prefix: 5, 2, mono-, hexa-  Have students complete graphic organizer of terms, ions  Naming Compounds Rule Creation Inquiry. Done in pairs  Materials: Graphic Organizer, Naming Inquiry Handout | 25 Min: Finish Naming Inquiry  30 Min: Build carbon chain models using marshmallows & pretzels. Draw representation of each in appropriate spot and complete table.  Materials: Large Marshmallows, pretzel sticks, mini marshmallows, Carbon chain handout. (Alternate materials for allergy/medical issue are foam balls large & small and toothpicks)  HW: Complete Naming Inquiry handout if not done, complete Carbon Chain Handout if not done. | Hydrate Inquiry  What is a hydrate  Discuss rules of hydrates  Discuss naming of hydrates  Students formulate procedure to determine formula of hydrate | Hydrate Inquiry  Students perform procedure to determine hydrate formula  HW: Do lab report for hydrate inquiry. | Chapter Review Game  Divide class into three groups, have 1 student from each group answer problems on dry erase boards for points.  Materials: Dry Erase Boards, Dry Erase Markers, Paper Towels, Review Handout.  HW: Review for test. |